

FIG.1 A GENERAL NETWORK ARRANGEMENT

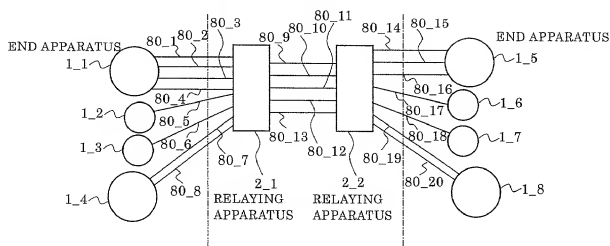


FIG.1 B SPECIFIC NETWORK ARRANGEMENT

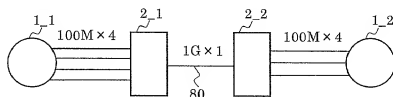


FIG.1 C LINK AGGREGATION & SUB-LOGICAL LINK

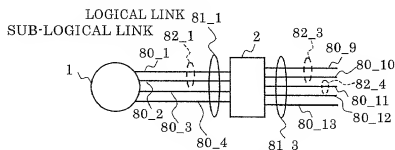


FIG.1 D OPERATION EXAMPLE OF SUB-LOGICAL LINKS

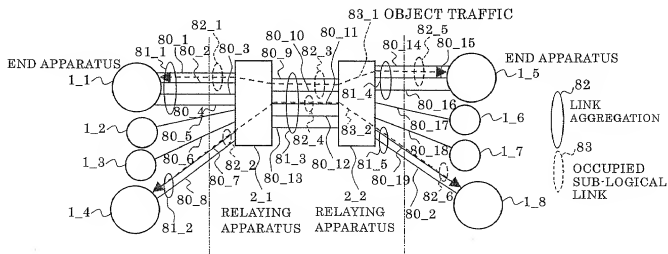
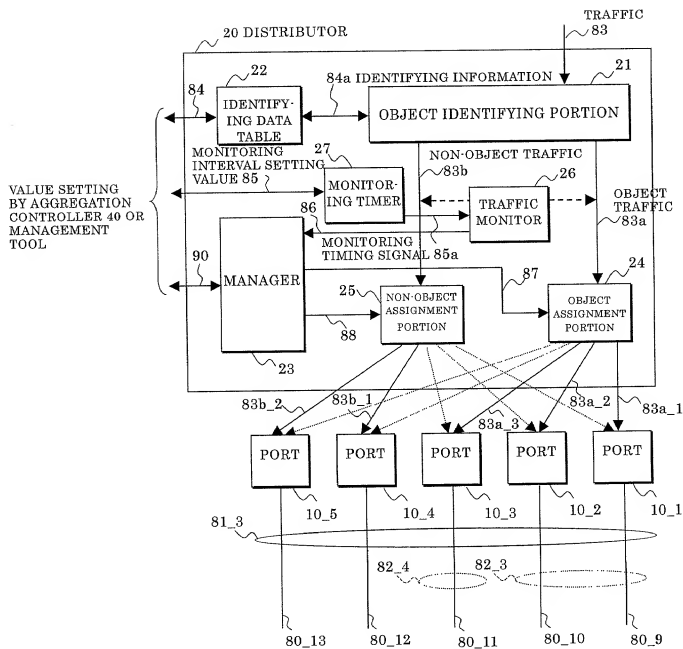


FIG.2



09904166-071201

FIG.3A IDENTIFICATION BASED ON MAC ADDRESS

KIND OF IDENTIFYING INFORMATION (IDENTIFYING CONDITION)	VALUE OF IDENTIFYING INFORMATION (CONDITION VALUE)
SOURCE MAC ADDRESS	00:00:0e:14:32:22
DESTINATION MAC ADDRESS	00:e0:5f:53:22:21
⋮	⋮

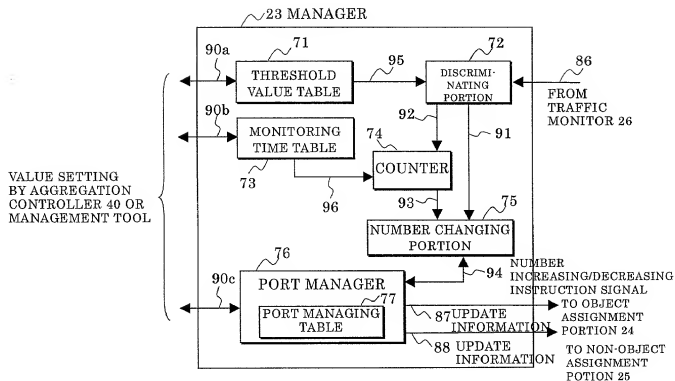
FIG.3B IDENTIFICATION USING INFORMATION OF IP/TCP HEADER

KIND OF IDENTIFYING INFORMATION (IDENTIFYING CONDITION)	VALUE OF IDENTIFYING INFORMATION (CONDITION VALUE)
SOURCE IP ADDRESS	133.10.15.3
DESTINATION IP ADDRESS	124.10.5.38
DESTINATION PORT NO.	69
⋮	⋮

FIG.3C IDENTIFICATION CORRESPONDING TO SUB-LOGICAL LINKS

KIND OF IDENTIFYING INFORMATION (IDENTIFYING CONDITION)	VALUE OF IDENTIFYING INFORMATION (CONDITION VALUE) (SUB-LOGICAL LINK 82_3)	VALUE OF IDENTIFYING INFORMATION (CONDITION VALUE) (SUB-LOGICAL LINK 82_4)	...
SOURCE MAC ADDRESS	00:00:0e:14:32:22	—	...
DESTINATION MAC ADDRESS	00:e0:5f:53:22:21	—	...
SOURCE IP ADDRESS	—	12.35.120.25	...
DESTINATION IP ADDRESS	—	122.131.11.221	...
PORT NO.	—	69	...
⋮	⋮	⋮	...

FIG.4



09904166-071201

FIG.5A

THRESHOLD VALUE TABLE 71

OCCUPATION NUMBER	TRAFFIC AMOUNT	PORT AVAILABLE RATE FOR OBJECT TRAFFIC	PORT AVAILABLE RATE FOR NON- OBJECT TRAFFIC
1	80Mbps	80%	80%
2	160Mbps		
3	240Mbps		
4	320Mbps		
⋮	⋮		

FIG.5B

MONITORING TIME TABLE 73

CORRESPONDING COUNTER	COUNT
RELEASING COUNTER	50 TIMES
DECREASING COUNTER	50 TIMES

FIG.5C

PORT MANAGING TABLE 77

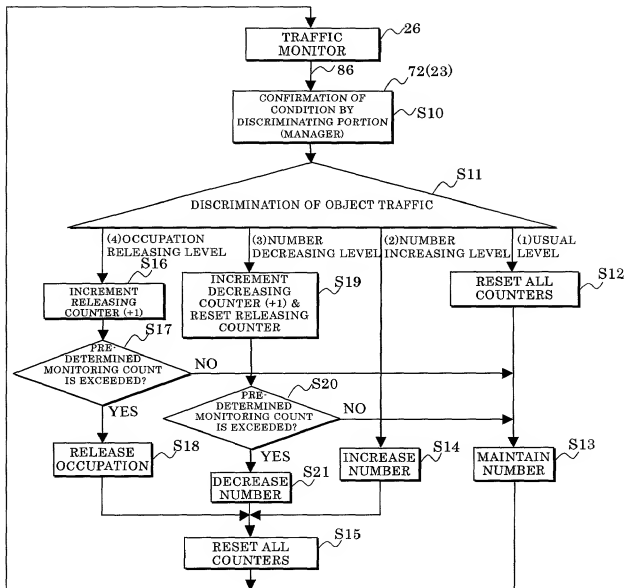
PORT	FOR OBJECT TRAFFIC
10_1	○
10_2	○
10_3	○(□→○)
10_4	□
10_5	□

○: OCCUPIED PORT(PORT FOR OBJECT TRAFFIC)

□: NON-OCCUPIED PORT(PORT FOR NON-OBJECT TRAFFIC)

00904166-071201

FIG.6



09904166.071201

FIG. 7

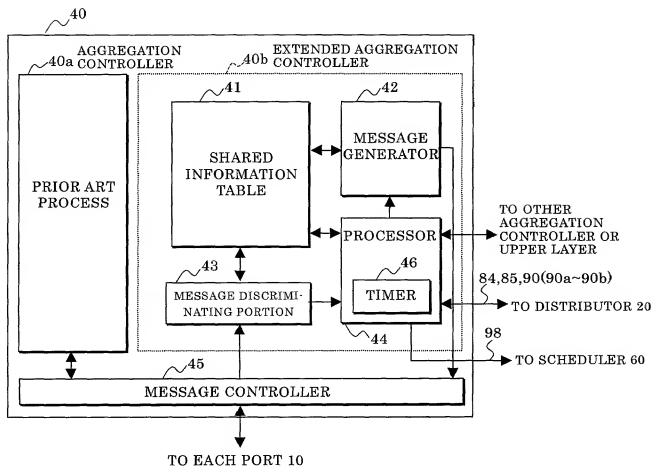


FIG.8

41

	SUB-LOGICAL LINK 82_3	SUB-LOGICAL LINK 82_4	...
OCCUPATION FLAG	on	on	...
REQUEST NUMBER	2	1	...
REQUEST BAND PER SINGLE LINK	100(Mbps)	100(Mbps)	...
REQUEST SOURCE ADDRESS	00:00:0e:14:32:22	00:00:0e:14:32:29	...
DESTINATION ADDRESS	00:e0:5f:53:22:21	00:e0:5f:53:22:26	...
IDENTIFYING CONDITION 1	SOURCE MAC ADDRESS	SOURCE IP ADDRESS	...
CONDITION VALUE 1	00:00:0e:14:32:22	12.35.120.25	...
IDENTIFYING CONDITION 2	DESTINATION MAC ADDRESS	DESTINATION IP ADDRESS	...
CONDITION VALUE 2	00:e0:5f:53:22:21	122.131.11.221	...
IDENTIFYING CONDITION 3	NONE	DESTINATION PORT NO.	...
CONDITION VALUE 3	—	69	...
IDENTIFYING CONDITION 4	—	NONE	...
CONDITION VALUE 4	—	—	...
⋮	⋮	⋮	...

09904166 . 071201

FIG.9

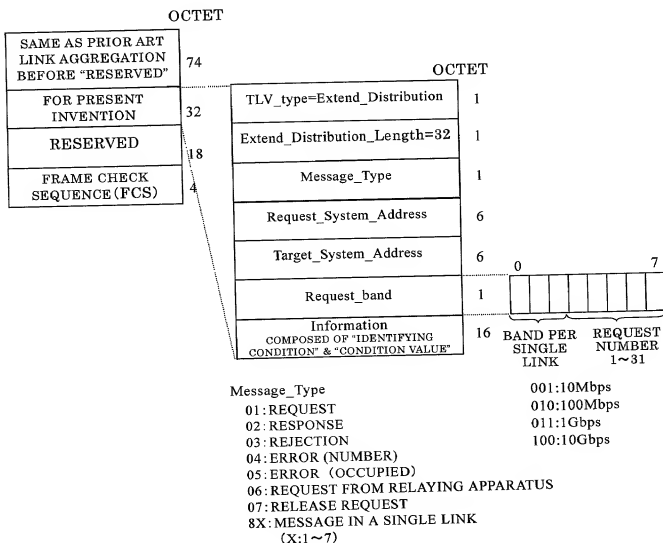


FIG.10A USUAL SEQUENCE

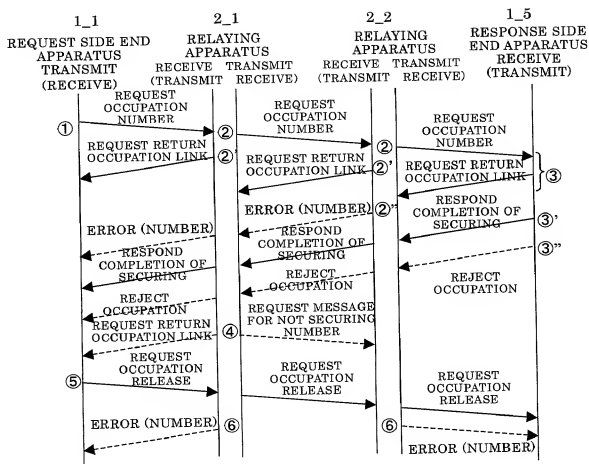


FIG.10B SEQUENCE UPON REQUEST OVERLAPPED

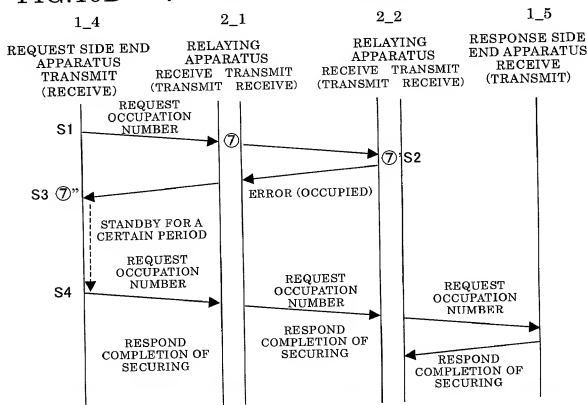
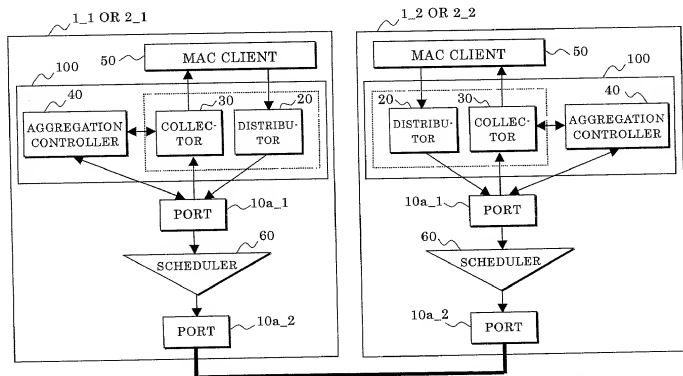


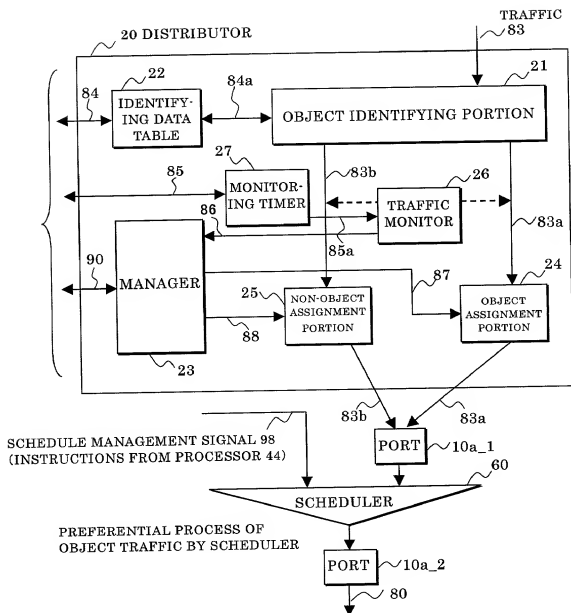
FIG.11



PREFERENTIAL PROCESS OF OBJECT TRAFFIC BY SCHEDULER

09904165-071201

FIG.12



09004156-071201

PRIOR ART

FIG.13A

OUTLINE OF LINK AGGREGATION

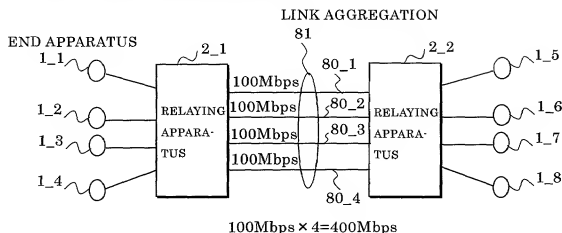


FIG.13B

OUTLINE OF LINK AGGREGATION PORT FUNCTION

INFORMATION HELD BY PORT

- INFORMATION ON PARTNER PORT
SYSTEM ID : A
LINK AGGREGATION GROUP ID : a
PORT ID : 1
- INFORMATION ON ACTOR PORT
SYSTEM ID : B
LINK AGGREGATION GROUP ID : b
PORT ID : 1

※ INFORMATION ON PRIORITY
BESIDES ID

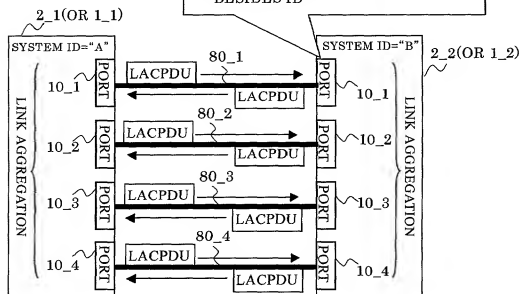


FIG.14A

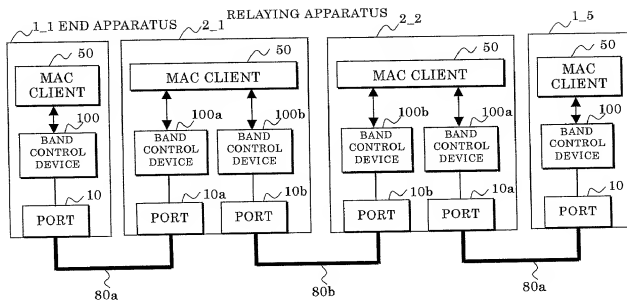


FIG.14B

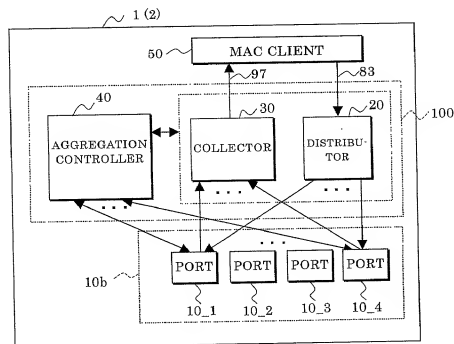


FIG.15

